

UMX-1132-D16-G

ULTRA-LOW NOISE COAXIAL RESONATOR OSCILLATORS

Package: D16, 12.7mm x 12.7mm x 5.6mm

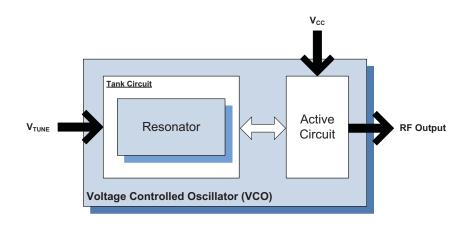


Features

- Ultra-Linear Tuning / Ultra-Low Phase Noise
- Frequency: 1990MHz to 2050MHz
- Resonator: Ceramic
- PCB: Rogers
- Package Size: 12.7mm x 12.7mm x 5.6mm (0.5in x 0.5in x 0.22in)

Applications

- Point-to-Point Radio
- DRO/YIG Multiplied Replacements
- Low Phase Noise Applications
- SAW VCO Replacement



Functional Block Diagram

Product Description

This VCO series features ultra-low phase noise, lower phase transients, lower harmonics, and lower pushing and pulling without any performance penalties typically associated with high technology designs.

Ordering Information

UMX-1132-D16-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

☐ GaAs HBT	☐ SiGe BiCMOS	☐ GaAs pHEMT	☐ GaN HEMT
☐ GaAs MESFET	☐ Si BiCMOS	□ Si CMOS	☐ BiFET HBT
☐ InGaP HBT	☐ SiGe HBT	▼ Si BJT	☐ LDMOS

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Absolute Maximum Ratings

Parameter	Rating	Unit
Operating Ambient Temperature[1]	-40 to +85	°C
Storage Temperature	-55 to +125	°C

^[1] Frequency drift: 4MHz typical (either extreme).



Caution! ESD sensitive device.

Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to the device may reduce device reliability. Specified typical performance or functional operation of the device under Absolute Maximum Rating conditions is not implied.

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RoHS (Restriction of Hazardous Substances): Compliant per EU Directive 2002/95/EC.

Parameter	,	Specification		Unit	Condition
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	1990		2050	MHz	
Tuning Voltage	1		9	V_{DC}	
Tuning Sensitivity		13		MHz/V	
Output Power	3	5	7	dBm	
	2.5			dBm	At V _T =0
Output Phase Noise		-88	-83	dBc/Hz	1kHz
		-117	-112	dBc/Hz	10kHz
		-137	-132	dBc/Hz	100kHz
		-157	-152	dBc/Hz	1000 kHz
		-164	-155	dBc/Hz	10000kHz
Second Harmonic		-15	-10	dBc	
Frequency Pulling		0.2	0.5	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		94		pF	
Modulation Bandwidth		1000		kHz	3dB BW
Frequency Pushing		0.1	0.5	MHz/V	
Power Supply			·		
Operating Voltage		10		V	
Supply Current		28		mA	

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Package Drawing & Pin Outs

12.7mm x 12.7mm x 5.6mm (0.5in x 0.5in x 0.22in)

